



ENTERED

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DATE: 03/12/2003

TIME: 13:05:53

Output Set: N:\CRF4\03122003\I806276A.raw

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1 <110> APPLICANT: TANG, Y. Tom
2 CORLEY, Neil C.
3 GUEGLER, Karl J.
4 LU, Aina Dyung M.
6 <120> TITLE OF INVENTION: BONE MARROW-DERIVED SERUM PROTEINS
8 <130> FILE REFERENCE: PF-0609 USN
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/806,276A
C--> 11 <141> CURRENT FILING DATE: 2001-03-27
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14 <151> PRIOR FILING DATE: 1998-10-02
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17 <151> PRIOR FILING DATE: 1998-10-02
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20 <151> PRIOR FILING DATE: 1999-10-01
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38 20 25 30
39 Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala
40 35 40 45
41 Ser Gln Ser Val Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
42 50 55 60
43 Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala
44 65 70 75
45 Thr Gly Ile Pro Pro Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
46 80 85 90
47 Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Val Ala Leu
48 95 100 105
49 Tyr Tyr Cys Gln Gln Tyr Phe Thr Thr Pro Tyr Thr Phe Gly Gln
50 110 115 120
51 Gly Thr Arg Leu Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val
52 125 130 135
53 Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala

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| 54 | | | | | 140 | | | | | 145 | | | | | 150 |
| 55 | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala | Lys |
| 56 | | | | | 155 | | | | | 160 | | | | | 165 |
| 57 | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln |
| 58 | | | | | 170 | | | | | 175 | | | | | 180 |
| 59 | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu |
| 60 | | | | | 185 | | | | | 190 | | | | | 195 |
| 61 | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys |
| 62 | | | | | 200 | | | | | 205 | | | | | 210 |
| 63 | Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val |
| 64 | | | | | 215 | | | | | 220 | | | | | 225 |
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| 70 | <212> TYPE: PRT | | | | | | | | | | | | | | |
| 71 | <213> ORGANISM: Homo sapiens | | | | | | | | | | | | | | |
| 73 | <220> FEATURE: | | | | | | | | | | | | | | |
| 74 | <221> NAME/KEY: misc_feature | | | | | | | | | | | | | | |
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| 80 | Lys | Gly | Lys | Lys | Phe | Lys | Leu | Arg | Asp | Ile | Leu | Ser | Pro | Asp | Met |
| 81 | | | | | 20 | | | | | 25 | | | | | 30 |
| 82 | Ile | Ser | Pro | Pro | Leu | Gly | Asp | Phe | Arg | His | Thr | Ile | His | Ile | Gly |
| 83 | | | | | 35 | | | | | 40 | | | | | 45 |
| 84 | Lys | Glu | Gly | Gln | His | Asp | Val | Phe | Gly | Asp | Ile | Ser | Phe | Leu | Gln |
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| 86 | Gly | Asn | Tyr | Glu | Leu | Leu | Pro | Gly | Asn | Gln | Glu | Lys | Ala | His | Leu |
| 87 | | | | | 65 | | | | | 70 | | | | | 75 |
| 88 | Gly | Gln | Phe | Pro | Gly | His | Asn | Glu | Phe | Phe | Arg | Ala | Asn | Ser | Thr |
| 89 | | | | | 80 | | | | | 85 | | | | | 90 |
| 90 | Ser | Asp | Ser | Val | Phe | Thr | Glu | Thr | Pro | Ser | Pro | Val | Leu | Lys | Asn |
| 91 | | | | | 95 | | | | | 100 | | | | | 105 |
| 92 | Ala | Ile | Ser | Leu | Pro | Thr | Ile | Gly | Gly | Ser | Gln | Ala | Leu | Met | Leu |
| 93 | | | | | 110 | | | | | 115 | | | | | 120 |
| 94 | Pro | Leu | Leu | Ser | Pro | Val | Thr | Phe | Asn | Ser | Lys | Gln | Glu | Ser | Phe |
| 95 | | | | | 125 | | | | | 130 | | | | | 135 |
| 96 | Gly</ | | | | | | | | | | | | | | |

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PATENT APPLICATION: US/09/806,276A

TIME: 13:05:53

Input Set : A:\pf0609usn_subseqlist.txt

Output Set: N:\CRF4\03122003\I806276A.raw

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107          215          220          225
108 Asp Leu Thr Gly Ser Leu Leu Ser Leu Gln Leu Asp Leu Gly Pro
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120 <223> OTHER INFORMATION: Incyte ID No: 135698CB1
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124 cccagactca gcttctcttc ctctgctac tctggctccc agataccacc ggagaaattg 120
125 tgttgacaca gtctccagcc accctgtctt tgtctccagg ggaaagagcc accctctcct 180
126 gcagggccag tcagagtgtt agcagctact tagcctggta ccaacagaaa cctggccagg 240
127 ctcccaggct cctcatctat gatgcatcca acagggccac tggcatccca cccaggttca 300
128 gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag cccgaagatg 360
129 tggcacttta ttactgtcag caatatTTTA ctactccgta cacttttggc caggggacca 420
130 ggctggagat caaacgaact gtggctgcac catctgtctt catcttcccg ccatctgatg 480
131 agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc tatcccagag 540
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133 tcacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg acgctgagca 660
134 aagcagacta cgagaaacac aaagtctacg cctgcgaagt caccatcag ggcctgagct 720
135 cgcccgtcac aaagagcttc aacaggggag agtgttagag ggagaagtgc cccacctgc 780
136 tcctcagttc cagcctgacc ccctcccac ctttggcctc tgaccctttt tccacagggg 840
137 acctaccctt attgcggtcc tccagctcat ctttcacctc acccccctcc tcttccttgg 900
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139 aa 962
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152 <222> LOCATION: 2533
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155 <400> SEQUENCE: 4
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158 gattgcgtgc gcccgcggga ggcccggggc agcggctggg atcctcagcg gcggccgggt 180
159 tgtcctgggt gtggtcaaga ctggatgatg taactggctc tctaggaagc ctcacttggc 240
160 cgtaacctca ggaaggttct ctttgacccc atctcatttc gaagccactt ctgaagccac 300
161 ttqagaaaaa tqatqtqaca qttcctatca aaaagqattc agaaacatat accatctgtg 360

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| 162 | aagaaagtgg | ccctttctcc | cgcttgcaaa | atagacattc | tcaaattcca | aaatgccagc | 420 |
| 163 | caagacccca | atttacctga | aagcagccaa | taacaagaaa | ggaaagaaat | ttaaactgag | 480 |
| 164 | ggacatttctg | tctcctgata | tgatcagtc | cccgcttggg | gacttttcgcc | acaccatcca | 540 |
| 165 | cattggcaaa | gagggccagc | acgatgtctt | tggagatatt | tcctttcttc | aagggaacta | 600 |
| 166 | cgagctttta | cctggaaacc | aggagaaagc | acacctgggc | cagttccctg | ggcataatga | 660 |
| 167 | gttcttccgg | gccaacagca | cctcggactc | tgtgttcaca | gaaacgccct | ccccggtgct | 720 |
| 168 | caaaaatgcc | atctccctcc | cgaccattgg | aggatcccaa | gctctcatgt | tgcccttatt | 780 |
| 169 | gtcaccagt | acatttaatt | ccaaacagga | gtccttcggg | ccagcaaagc | tgcccaggct | 840 |
| 170 | tagctgcgag | cccgtcatgg | aggaaaaagc | tcaggagaaa | agcagtctgt | tggagaatgg | 900 |
| 171 | gacagtccac | cagggagaca | cctcgtgggg | ctccagcggg | tctgcattct | agtccagcca | 960 |
| 172 | aggcagagac | agccactcct | ccagcctgtc | cgaacagtac | cccgactggc | cagccgagga | 1020 |
| 173 | catgtttgac | catcccaccc | catgcgagct | catcaaggga | aagactaagt | cagaggagtc | 1080 |
| 174 | cctctctgac | cttacaggtt | ccctcctctc | cctgcagctt | gatcttgggc | cctcactttt | 1140 |
| 175 | ggatgaggtg | ctgaatgtaa | tggataaaaa | taagtaacaa | gatgccaaact | tttttccttt | 1200 |
| 176 | ggggtaaaaag | gtacaaaaac | aaactaacca | cagttgaaga | gaagggttc | cggagctgta | 1260 |
| 177 | tttgcagttt | tgtgttgggt | tttctaaaat | aatattctta | caaagtattt | ttttacctgt | 1320 |
| 178 | tatgccctgt | ttgcaaaaac | aatttagaaa | aaaacaacaa | agcaaaacct | atcttggcaa | 1380 |
| 179 | aaaaaggaag | tgagtcagag | cccattttca | ggaggcattg | gtgatgttcg | gtcacatat | 1440 |
| 180 | tgtttgacaga | cacacaagaa | atctggcctg | gccaggattg | gcactagcta | tgaagggtg | 1500 |
| 181 | agcgagtcac | attaaggaac | ttcacggaac | tttatagcac | tccgacattt | tctgagcaag | 1560 |
| 182 | aggaagtcaa | aatttattta | acacctaaagc | ctttttgtag | actcttttct | atatattgct | 1620 |
| 183 | taggctcacc | atagcgaatt | ctccagtgtt | aaaacttttc | tgttttcaca | tttgaacttt | 1680 |
| 184 | atgggttttg | gggattttct | tgtagtctct | atatatccct | atatattata | tctatattgc | 1740 |
| 185 | aaaatttttg | ctgtcagcta | catgttggtg | agacacaggc | aaagtattac | tgtaactaag | 1800 |
| 186 | ttatttttta | agttaaaata | tatttttaag | tgcccttggc | tttttattgc | agagtctaca | 1860 |
| 187 | ttttatagat | tctacatcag | atgttgtcac | ttatttccat | tgggattcca | ttgtaagctg | 1920 |
| 188 | tgatatgtcg | tgtttggaag | agtgtattca | tacttagttt | ttttttcttc | atctgttatc | 1980 |
| 189 | atacttttta | cagcaaccaa | taacggattg | taaagtgtaa | aggcacaggg | tactcatgat | 2040 |
| 190 | gcttctgcag | agactgtggg | ctacaccaca | tatgttattt | ggaaatatag | gtatttttagt | 2100 |
| 191 | acagtacata | cttgcattac | ataggtactt | caagcaacac | aataaaaagt | aaatgataaa | 2160 |
| 192 | gtgaacttgc | ttgttttatag | taataaacaa | gaccataaga | gaataagtat | agctagagaa | 2220 |
| 193 | attgcttctc | tgaaatgtac | atgagccctt | aaggtaagag | atgatttcca | tctactctca | 2280 |
| 194 | ttttgattac | ttccttatgg | tttgagaggc | tagaaactga | gcctctctac | ttttggaaaa | 2340 |
| 195 | atgaacatgt | gaggtcagat | tttttttttt | ttttttaagt | cagcactgat | gccaccctct | 2400 |
| 196 | cagtgggtcat | ttctgagcat | cttcctgact | tgaacacctt | ctacagcaaa | ctcttgcaag | 2460 |
| 197 | tccagtttca | tccctgtaag | gcaaattgtct | tttcacgcag | aaagtgccat | atagacgaga | 2520 |
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212 Gly Lys Leu Ser Pro Val Gly Trp Val Ser Ser Ser
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RAW SEQUENCE LISTING

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| 216 | Arg | His | Thr | Met | His | Val | Gly | Arg | Gly | Gly | Asp | Val | Phe | Gly | Asp |
| 217 | | | | | 50 | | | | | 55 | | | | | 60 |
| 218 | Thr | Ser | Phe | Leu | Ser | Asn | His | Gly | Gly | Ser | Ser | Gly | Ser | Thr | His |
| 219 | | | | | 65 | | | | | 70 | | | | | 75 |
| 220 | Arg | Ser | Pro | Arg | Ser | Phe | Leu | Ala | Lys | Lys | Leu | Gln | Leu | Val | Arg |
| 221 | | | | | 80 | | | | | 85 | | | | | 90 |
| 222 | Arg | Val | Gly | Ala | Pro | Pro | Arg | Arg | Met | Ala | Ser | Pro | Pro | Ala | Pro |
| 223 | | | | | 95 | | | | | 100 | | | | | 105 |
| 224 | Ser | Pro | Ala | Pro | Pro | Ala | Ile | Ser | Pro | Ile | Ile | Lys | Asn | Ala | Ile |
| 225 | | | | | 110 | | | | | 115 | | | | | 120 |
| 226 | Ser | Leu | Pro | Gln | Leu | Asn | Gln | Ala | Ala | Tyr | Asp | Ser | Leu | Val | Val |
| 227 | | | | | 125 | | | | | 130 | | | | | 135 |
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| 229 | | | | | 140 | | | | | 145 | | | | | 150 |
| 230 | His | Ser | Ser | Tyr | Gly | Leu | Asp | Ser | Gly | Phe | Cys | Thr | Ile | Ser | Arg |
| 231 | | | | | 155 | | | | | 160 | | | | | 165 |
| 232 | Leu | Pro | Arg | Ser | Glu | Lys | Pro | His | Asp | Arg | Asp | Arg | Asp | Gly | Ser |
| 233 | | | | | 170 | | | | | 175 | | | | | 180 |
| 234 | Phe | Pro | Ser | Glu | Pro | Gly | Leu | Arg | Arg | Ser | Asp | Ser | Leu | Leu | Ser |
| 235 | | | | | 185 | | | | | 190 | | | | | 195 |
| 236 | Phe | Arg | Leu | Asp | Leu | Asp | Leu | Gly | Pro | Ser | Leu | Leu | Ser | Glu | Leu |
| 237 | | | | | 200 | | | | | 205 | | | | | 210 |
| 238 | Leu | Gly | Val | Met | Ser | Leu | Pro | Glu | Ala | Pro | Ala | Ala | Glu | Thr | Pro |
| 239 | | | | | 215 | | | | | 220 | | | | | 225 |
| 240 | Ala | Pro | Ala | Ala | Asn | Pro | Pro | Ala | Pro | Thr | Ala | Asn | Pro | Thr | Gly |
| 241 | | | | | 230 | | | | | 235 | | | | | 240 |
| 242 | Pro | Ala | Ala | Asn | Pro | Pro | Ala | Thr | Thr | Ala | Asn | Pro | Pro | Ala | Pro |
| 243 | | | | | 245 | | | | | 250 | | | | | 255 |
| 244 | Ala | Ala | Asn | Pro | Ser | Ala | Pro | Ala | Ala | Thr | Pro | Thr | Gly | Pro | Ala |
| 245 | | | | | 260 | | | | | 265 | | | | | 270 |
| 246 | Ala | Asn | Pro | Pro | Ala | Pro | Ala | Ala | Ser | Ser | Thr | Pro | His | Gly | His |
| 247 | | | | | 275 | | | | | 280 | | | | | 285 |
| 248 | Cys | Pro | Asn | Gly | Val | Thr | Ala | Gly | Leu | Gly | Pro | Val | Ala | Glu | Val |
| 249 | | | | | 290 | | | | | 295 | | | | | 300 |
| 250 | Lys | Ser | Ser | Pro | Val | Gly | Gly | Gly | Pro | Arg | Gly | Pro | Ala | Gly | Pro |
| 251 | | | | | 305 | | | | | 310 | | | | | 315 |
| 252 | Ala | Leu | Gly | Arg | His | Trp | Gly | Ala | Gly | Trp | Asp | Gly | Gly | His | His |
| 253 | | | | | 320 | | | | | 325 | | | | | 330 |
| 254 | Tyr | Pro | Glu | Met | Asp | Ala | Arg | Gln | Glu | Arg | Val | Glu | Val | Leu | Pro |
| 255 | | | | | 335 | | | | | 340 | | | | | 345 |
| 256 | Gln | Ala | Arg | Ala | Ser | Trp | Glu | Ser | Leu | Asp | Glu | Glu | Trp | Arg | Ala |
| 257 | | | | | 350 | | | | | 355 | | | | | 360 |
| 258 | Pro | Gln | Ala | Gly | Ser | Arg | Thr | Pro | Val | Pro | Ser | Thr | Val | Gln | Ala |
| 259 | | | | | 365 | | | | | 370 | | | | | 375 |
| 260 | Asn | Thr | Phe | Glu | Phe | Ala | Asp | Ala | Glu | Glu | Asp | Asp | Glu | Val | Lys |
| 261 | | | | | 380 | | | | | 385 | | | | | 390 |
| 262 | Val | | | | | | | | | | | | | | |

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/806,276A

DATE: 03/12/2003
TIME: 13:05:54

Input Set : A:\pf0609usn_subseqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 2533

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/806,276A

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Input Set : A:\pf0609usn_subseqlist.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:2520